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(54) Title: METHODS OF SCREENING FOR ANTI-INFLAMMATORY DRUGS AND USE THEREOF

(57; Abstract: The present invention relates to methods for screening small organic compounds capable of inhibiting the interactions of glycosaminoglycans with effector cell adhesion molecules. Specifically, the present invention provides a method for screening of small organic compounds, the compounds inhibit the interaction of heparin with L-selectin or P-selectin. The compounds identified by the methods of the invention are useful for treating inflammatory disorders, autoimmune diseases and cancer.

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A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : G01N 33/53; C07K 16/00; A61K 39/395 US CL : 435/7.1; 530/387.1; 424/130.1						
B. FIE	o International Patent Classification (IPC) or to both LDS SEARCHED	national class	sification and IPC	· · · · · · · · · · · · · · · · · · ·		
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0.5. :	433/7.1; 330/387.1; 424/130.1					
Documentat	ion searched other than minimum documentation to	the extent that	such documents are include	d in the fields searched		
Electronic d Medline, ST	ata base consulted during the international search (n'N and WEST	ame of data ba	se and, where practicable, s	earch terms used)		
	UMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where	appropriate, o	f the relevant passages	Relevant to claim No.		
A	KOENIG et al. Differential interactions of hepar glycosaminoglycans with the selectins. Implication molecular weight heparins as therapeutic agents. In 101, No. 4, page 877-889. See the entire documents.	1-12, 14-35				
<u>x</u>	DIAMOND et al. Heparin is an adhesive ligand i (CD11b/CD1). J. Cell Biol. 1995, Vol. 130, No.	or the leukocy	te integrin Mac-1	1-7, 12, 14-17		
Y	(CD110/CD1). J. Cell Blot. 1993, Vol. 130, No.	o, page 1473-	-1482.	8-11, 18		
x	HAUGEN et al. A cell-surface heparan sulfate pro and spreading on a defined sequence from the C-to	1-12, 14-35				
	of fibronectin, FN-C/H II. J Neurosci. July 1992,	Vol. 12, No.	7, page 2597-2608.			
X	WO 00/45831 A1 (THOMAS JEFFERSON UNIVERSITY) 10 August 2000 (10 entire document.			1-12, 14-35		
Х — Y	NELSON et al. Heparin oligosaccharides bind L- and P-selectin and inhibit acute inflammation. Blood. 1 December 1993, Vol. 82, No. 11, page 3253-3258.			1-6, 8-12, 14-20, 22- 27		
				7, 21		
	documents are listed in the continuation of Box C.	Se	e patent family annex.			
	pecial categories of cited documents; defining the general state of the art which is not considered to be	uz	ter document published after the inter ate and not in conflict with the applica-	ition but cited to understand the		
or particu	iar relevance	pr	mciple or theory underlying the inver	ntion .		
"E" earlier application or patent published on or after the international filling date "L" document which may throw doubts on priority claim(s) or which is also do		CO	ocument of particular relevance; the considered novel or cannot be considered the the document is taken alone	ed to involve an inventive step		
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06 December 2004 (06.12.2004) Name and mailing address of the ISA/US Authorized officer Authorized officer						
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PCT/IL03/01116	

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim N
X	PETER et al. Heparin inhibits ligand binding to the leukocyte integrin Mac-1 (CD11b/CD18). Circulation. 5 October 1999, Vol. 100, No. 14, page 1533-1539.	1-12, 14-35
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INTERNATIONAL SEARCH REPORT

International application No.

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Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet) This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
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